1/14 Huras et al. YOR920030458US1 (GHZ)

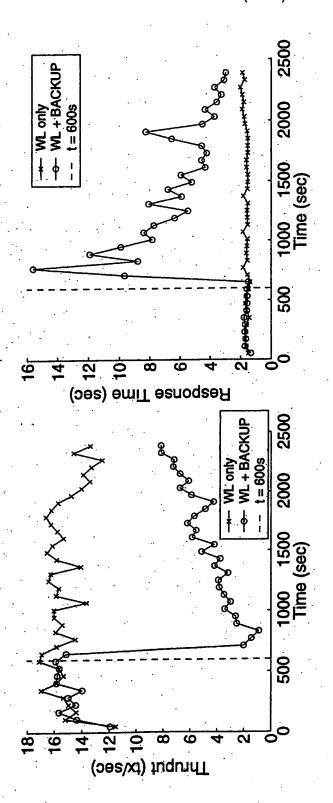
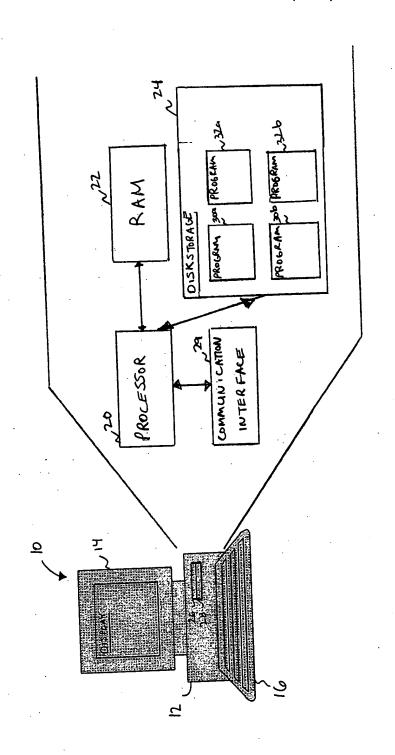


Fig. 1

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3/14 Huras et al. YOR920030458US1 (GHZ)

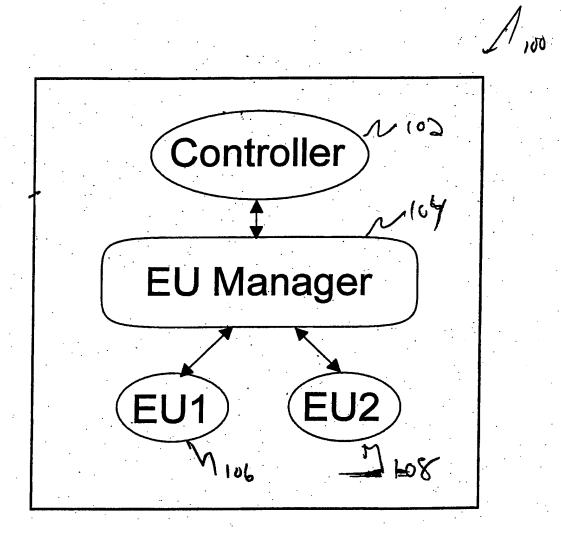
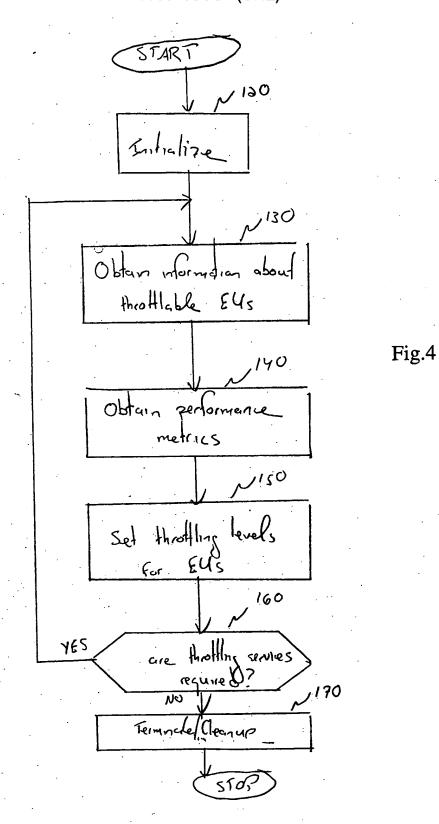


Fig. 3

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5/14 Huras et al. YOR920030458US1 (GHZ)

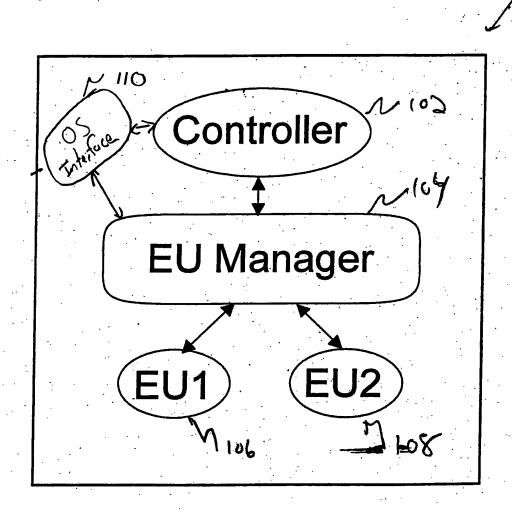


Fig. 5

6/14 Huras et al. YOR920030458US1 (GHZ)

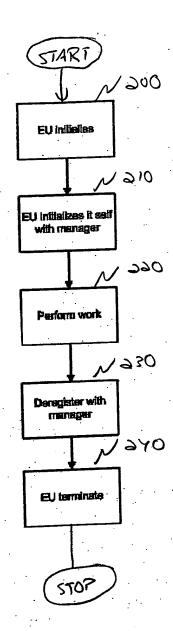


Fig. 6

7/14 Huras et al. YOR920030458US1 (GHZ)

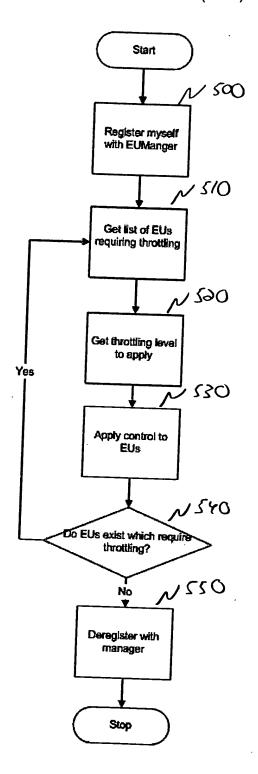


Fig. 6b

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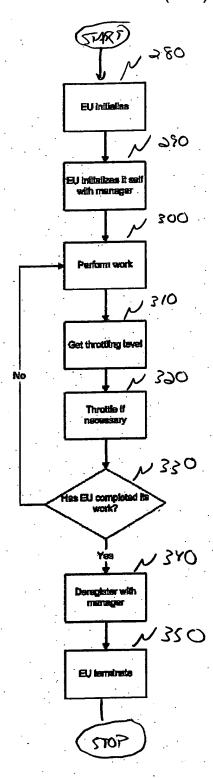


Fig. 7

9/14 Huras et al. YOR920030458US1 (GHZ)

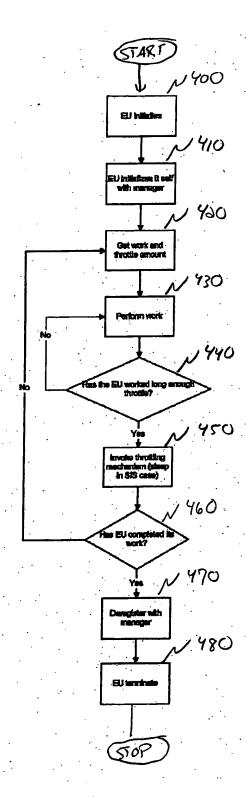


Fig. 8

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COMPONENT ThrottleAgent
BEGIN
EUManager->RegisterThrottleAgent();
While (EUManager->IsThrottlingRequired())
BEGIN
EUList = EUManager->GetListOfEUs(self);
ThrottlingLevels = EUManager->GetThrottlingLevel(EUList);
... apply ThrottlingLevel to EUs in EUList ...
END
EUManager->DeregisterThrottleAgent();
END

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```
COMPONENT EU
BEGIN
... Initialization ...
EUManager->RegisterEU(...args...);

While( NOT Done )
BEGIN
... Do some work ...
ThrottlingLevel = EUManager->GetThrottlingLevel( self );
Throttle(ThrottlingLevel);
END
... Termination ...
EUManager->DeRegisterEU();
END
```

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```
FUNCTION Utility()
BEGIN
WHILE (NOT done)
BEGIN
... do some work ...
That If Needed()
END
```

```
(a) Inserting SIS point
```

```
FUNCTION Throfile (Needed()
BEGIN
    (workTime, sleepTime) = GetThrottlingLevel();
    timeWorked = Now() - workStart;
    IF (timeWorked > workTime)
        SLEEP( sleepTime );
        workStart = Now();
    ENDIF
```

(b) SIS implementation

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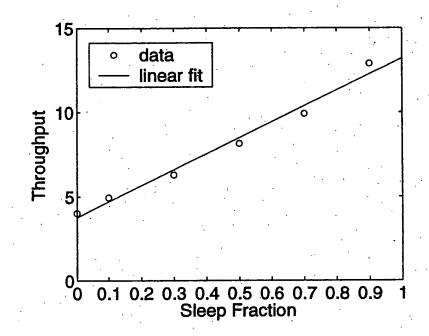


Fig. 12

14/14 Huras et al. YOR920030458US1 (GHZ)

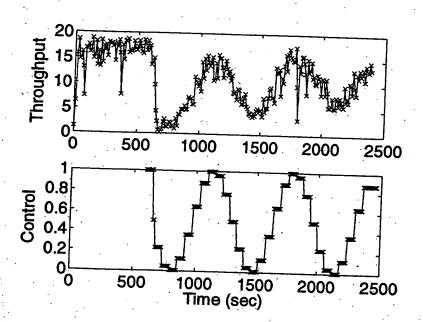


Fig. 13